

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/047706 A3

(51) International Patent Classification⁷: **A61H 3/02**

(21) International Application Number:
PCT/KR2003/002570

(22) International Filing Date:
26 November 2003 (26.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2002-0074317
27 November 2002 (27.11.2002) KR

(71) Applicant and

(72) Inventor: HAN, II [KR/KR]; 118-2003, Donga Solecity
APT, Haengwon Maeul, 1161 Bojeong-ri, Guseong-eup,
Yongin-si, 449-913 Gyeonggi-do (KR).

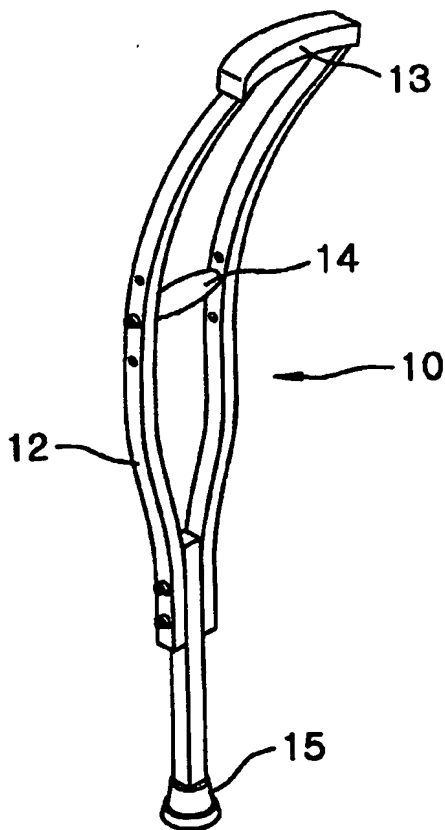
(74) Agent: LEE, Myoung-Taek; Moden Patent Law Office,
#109, Byucksan Digital Valley II, 481-10, Gasan-dong, Ge-
uncheon-gu, Seoul 153-783 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: CRUTCH



(57) Abstract: A crutch, which does not give pressure on the tissues, muscles and nerves of the user's armpit, and provides a stabilized walking to a user, is disclosed. The crutch includes a support rod (12), a cross-pad (13) coupled to an upper end of the support rod (12), a hand piece (14) provided at a mid point of the support rod (12), and a cap (15) for preventing the crutch from skidding mounted on a lower end of the support rod (12). An upper part corresponding to a section between the cross-pad (13) and a predetermined point below the hand piece (14) of the support rod (12) is bent to have a smaller radius, while a lower part corresponding to a section between the predetermined point of the support rod (12) and the lower end of the support rod (12) is bent to have a larger radius.



Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
24 February 2005

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2003/002570

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: A61H 3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: A61H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Epodoc, cl txtg, cl txtf, cl txtc

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 106497 16.08.1917 (RENOUARD) <i>figures 1, 2.</i>	1
A	US 4763 680 A (ACOSTA) 16 August 1988 (16.08.1988) <i>abstract; fig. 1, 2</i>	1
A	US 4 625 743 (HARKER) 2 December 1986 (02.12.1986) <i>abstract, figure 4.</i>	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

17 December 2004 (17.12.2004)

Date of mailing of the international search report

27 December 2004 (27.12.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

Facsimile No. 1/53424/535

Authorized officer

ZAWODSKY R.

Telephone No. 1/53424/346

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR 2003/002570

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
GB	A	10649716 081917		none	
US	A	4625743	1986-12-02	none	
US	A	4763680	1988-08-16	none	